

Ayush Goyal

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EDUCATION

DELHI TECHNOLOGICAL UNIVERSITY

B.TECH, INFORMATION TECHNOLOGY
2019 - 2023 | New Delhi, India
GPA: 9.29 (till 5th semester)

HHF SCHOOL

2019 | New Delhi, India
Class 12th : 92%

DELHI PUBLIC SCHOOL MATHURA ROAD

New Delhi, India
Class 10th CGPA : 10

LINKS

Portfolio:// ayushgoyal.dev
GitHub:// [ayush6624](https://github.com/ayush6624)
LinkedIn:// [ayush-goyal6624](https://www.linkedin.com/in/ayush-goyal6624)
CodeChef:// [ayush6624](https://www.codechef.com/ayush6624)

COURSEWORK

UNDERGRADUATE

Data Structures And Algorithms
Object Oriented Programming
Database Management System
Operating System

SKILLS

PROGRAMMING

Languages:
C • C++ • Python • JavaScript
• TypeScript

Web Development:

React • NextJS • HTML • CSS
• NodeJS • MongoDB • Docker

Machine Learning:

Deep Learning • OpenCV
• Tensorflow • PyTorch

Misc:

AWS • Bash

POSITIONS

- Head Web Technology at IOSD DTU
- Web Core Team Member at Google Developer Student Club DTU

EXPERIENCE

MICROSOFT | SOFTWARE ENGINEERING INTERN

May 2022 – July 2022 (Incoming) | India

PABIO (YC S21) | JAVASCRIPT ENGINEERING INTERN

Apr 2021 – Apr 2022 | Switzerland

- Built and maintained the **user-facing website** and **internal platform** using **NextJS** and **TypeScript**; Created **API endpoints** in **NestJS** and **Prisma**.
- Created a **monorepo** using **Rush**, integrating all the packages along with **auto-generated types**, **documentation** and **parallel builds**.
- Built **CI pipelines** and helped in **architecting** and **managing services** running on **AWS** and **GCP**.

TRIPMOKSHA | SOFTWARE DEVELOPER INTERN

Jan 2020 – Mar 2020 | New Delhi, India

- Used **Python**, **Flask**, **MongoDB** and **Firebase** to develop **REST APIs**.
- Integrated a payment pipeline using **Stripe** and **Mailgun**.
- Built reusable **dashboards** using **Javascript**.

PROJECTS

MICROSOFT TEAMS CLONE | Code

- **Designed and developed** a fully-featured clone of MS Teams with **agile** methods using **NextJS**, **Prisma**, **Express** and **TypeScript**.
- Supports **video call**, group chat, **OAuth** authentication, **background filters**, toast notifications, detailed **analytics** using **web beacons**, etc.
- Equipped to handle **25+** participants exchanging media via an **SFU** provided by **Twilio**.

VIRTUAL DANCE PARTY | Code

- Used **Javascript** to develop a fun app to host **virtual dance parties** where participants can **dance together** as **animated stickmen**.
- Used **Tensorflow** and **PoseNet** Model to estimate the pose using the camera of the device.
- **Rendered** animated **2D stickmen** using **Two.js** (~25 FPS).
- Used **Spotify SDK** to stream and control **music** in the dance room.

DRONE DELIVERY | Code

- Developed a system to devise a **cost-effective route** for a truck and **multiple drones** to transport packages to a **network** of delivery nodes.
- Used **K-Means** to **cluster** delivery nodes and used **TSP** with **heuristics** to identify the truck routes.
- Implemented **ILP** formulation of **multiple salesman problem** to generate drone routes. Used **JavaScript**, **Google Maps API** to illustrate them.
- **Reduced** compute time by **95%** and **increased** route efficiency by **34%**.

ETC

- Awarded the **Best Hack** at **MLH New Year Hackathon 2021**.
- Organised and judged **Winterlympics**, where **100+** students participated.